VNUKOV, A.K., kand.tekhn.nauk Leaks in combustion chambers, their influence on the operation of boilers and simple control methods. Teploenergetika 7 (MERA 13:5) no.3:44-48 Mr '60. 1. Yuzhnoye otdeleniye Gogudarstvennogo tresta po organizatsii i ratsionalizatsii elektrostantsiy. (Boilers)

sov/96-59-7-5/26

AUTHORS: Vnukov, A.K. Candidate of Technical Sciences and Madoyan, A.A., Engineer

TITLE: The Automatic Control of Drum-type Ball Mills According to the Level of the Fuel in the Trum (Avtomatizatsiya sharovykh barabannykh mel nits po urovnyu topliva v barabane)

PERIODICAL: Teploenergetika, 1959, Nr 7, pp 19-21 (USSR)

ABSTRACT: During the last year and a half many stations in the south of the country burning anthracite fines have introduced control of the loading of ball mills according to the level of fuel in the mill. Good results have been obtained even though the actual concept of fuel level is obtained even though the actual concept of fuel level is assumption that the milled fuel is in the lower part of assumption that the milled fuel is in the lower part of the drum and behaves as a liquid. This concept has been used to explain the operation of the signalling devices, such as those illustrated in Figure 1, in the following such as those illustrated in Figure 1, in the following together externally by a differential pressure gauge.

Card 1/6 Inside the mill the lower tube is at a certain depth below

soy/96-59-7-5/26

The Automatic Control of Drum-type Ball Mills According to the Level of the Fuel in the Drum

the level of fuel and the upper tube is in the air. air in the lower tabe has to overcome the resistance of the fuel layer and the magnitude of this resistance is proportional to the depth of immersion. Instead of pumpingthe air in from cutside it may be induced by lowering the pressure in the mill. This induction method was used in studying the level in a mill type Sh-16 milling Donets anthracite fines. During the test the mill operated with a 28-ton load of balls, and the fuel residue on an 88-mesh sieve was 7 to 9%. The mill output could not be measured, but the fuel level in the mill was maintained constant by automatic control. During the test the upper tube remained fixed and different lower tubes were used so that the pressure-difference field could be measured in a number of places. The partial vacuum in the mill air-duct was 180 - 200 mm water; the pressure drops observed at different places on the section of the mill about 150 mm from the end of the drum are shown in Figure 2. A curve of pressure increase along the vertical diameter of the

sov/96-59-7-5/26

The Automatic Control of Drum-type Ball Mills According to the Level of the Fuel in the Drum

drum is shown in Figure 3. Above the fuel level the pressure drop is practically zero, and below the level the pressure drop increases rapidly to 100 mm water. Although the assumption that the fuel behaves as a liquid satisfactorily explains the operation of the device illustrated in Figure 1, it was found that the device continued to operate if the holes used to supply air to the tubes were stopped up. In order to investigate this question further, two tubes were introduced into the drum and differential pressure gauges connected between them, as shown in Figure 4. The mill was emptied before the test and at the start of the test the rate of coal delivery was sharply increased. As the load in the drum increased the partial vacuum in the lower tube steadily dropped to zero and after about 38 minutes there was a pressure difference of 110 mm water. The process of pressure increase was followed until there were signs that the mill was becoming overloaded. It will be seen from the results

sov/96-59-7-5/26

The Automatic Control of Drom-type Ball Mills According to the Level of the Fuel in the Doug

mill measured in the usual way varied little and was about 190 mm water. That in the upper tube also changed little and was 120 mm water. Two explanations of the facts are possible. If the fuel behaves as a liquid it may be supposed that the dust penetrates into the vertical part of the lower tube and compresses the air in it. Another explanation is that the pressure-drop reflects the actual air-pressure conditions within the drum. By putting a porous barrier in the end of the lower tube to prevent ingress of fuel it was shown that the first explanation does not hold. The air-pressure distribution in the drum can be explained as follows. As the fuel and balls rotate, the fuel is thrown to the far side of the balls, as shown in Figure 2. As the fuel falls back, the upper layers of fuel/air mixture compress the lower ones, so causing the observed pressure distribution. Air pressure is also set Card 4/6 up by retardation of fuel particles and their movement relative to the air. As the quantity of fuel in the drum

SOY/96-59-7-5/26

The Automatic Control of Drum-type Ball Mills According to the Level of the Fuel in the Drum

increases, the pressure starts to rise in the upper tube. In this case the pressure difference between the upper and lower tubes becomes almost constant, and does not depend on the air conditions in the drum. It will be seen from Figure 4 that changes in the ventilation of the mill had little effect on the pressure drop between the tubes. The effect is compared with the useful head during the circulation of a steam-water emulsion. In any case, there is a simple relation between the quantity of fuel in the drum and the pressure drop between the tubes, which provides a very convenient signal of fuel level. The best value of pressure-drop to be maintained should be determined from mill output tests. A mill automation arrangement based on this device was used at a southern power station. A schematic diagram of the equipment is shown in Figure 5. The tubes are 16 mm diameter and are supported at the point of entry into the drum; it is found that they do not become blocked, presumably because they vibrate. This scheme has a number of advantages over previous ones; in particular

Card 5/6

SOV/96-59-7-5/26

The Automatic Control of Drum-type Ball Mills According to the Level of the Fuel in the Drum

> it is not necessary to maintain a constant partial vacuum in the mill and the fuel load can be controlled over a very wide range. There are 5 figures and 2 Soviet references.

Yuzhnoye otdeleniye ORGRES (The Southern Division of ASSOCIATION: ORGRES)

Card 6/6

VNUKOV, A.K., Cand Tech Sci -- (diss) "Certain questions on the L'vov firing of high pressure cylindrical boilers". Liver, 1957. 17 pp sketcles with designs diagrams/ 22 cm (Min of Higher Education USSR. Mos Order of Lenin Power Engineering Inst im (Molotov). 100 copies (KL, 9-57, 101)

-17-

VNUTOU, A.K.

AID P - 2038

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Subject : USSR/Engineering

Card 1/1

Pub. 110-a - 11/14

Author

: Vnukov, A. K., Eng.

Title

: Experiments with the ignition of high-pressure boilers

Periodical: Teploenergetika, 4, 54-57, Ap 1955

Abstract

: The article describes experiments made with the firing of high-pressure boilers of two different designs. The main factors which determine the distribution and variation of temperature in boilers were investigated. The author reports some observations on the uneven heating of watertubes and drums and recommends complete and early valve opening before commencement of ignition.

Six diagrams.

Institution: None

Submitted: No date

VNUKOV, A.K., kend. tekhn. nauk

Electric radiometer as an instrument for determining the thermal flow of radiant energy. Teploenergetika 5 no. 8:91-92 Ag *58.

(MIRA 11:8)

(Radiometer)

AUTHOR: Vnukov, A.K. (Cand. Tech. Sci.)

SOV/96-58-10-6/25

TITLE

Temperature conditions and thermal stresses in high-pressure boiler drums during normal and accelerated shut-down (Temperaturnyy rezhim i termicheskiye napryazheniya v barabanakh kotlov vysokogo davleniya pri obychnoy i uskorennoy ostanovke)

PERIODICAL:

Teploenergetika, 1958, No.10. pp. 23-25 (USSR)

ABSTRACT 2

When a boiler cools down, heat exchange takes place between the walls of the drum, the surrounding atmosphere, and the substance filling the drum. The drum cools most rapidly from within. A cooling curve for the drum walls of a boiler type TP-230 is given in Fig.1; the theoretical curve (1) is calculated by equation 2. The experimental curve (2) shows that cooling is actually four or five times more rapid than indicated by surve (1). Hence, external cooling of the drum is of secondary importance and internal cooling predominates. This question is then considered in more detail. After disconnecting the boiler superheater, blow-down is continued for up to an hour, or even longer during accelerated shut-down. During this time, the boiler operates as a heat accumulator, so that the whole mass of water is cooled as the pressure falls. During a normal shut-down, the drum continues to deliver steam, which is condensed in the superheater tubes. Temperature changes of various points on the small and large drums of a boiler type TP-230 during shut-down are plotted in Fig.2. Typical curves of temperature difference along the length of the drum, and

Card 1/2

Temperature conditions and thermal stresses in high-pressure boiler drums during named and accelerated shut-down.

round the perimeter, are given in Figs. 3. & 4. respectively. It is shown that, during normal cooling, temperature differences in the most massive part of the drum are not more than 20°C, and the corresponding thermal stresses are negligible. Tests of rapid shut-down, with increased output of steam to ensure cooling, show that temperature differences of 80 - 100°C can arise in the salty sections of the boiler (Sec Fig. 5.). The corresponding stress conditions in the drum are estimated and the change in the maximum temperature difference during cooling is graphed in Fig. 6. The cooling stresses are greatest only after the internal pressure stresses have become much reduced and, the cooling time of drum-type boilers could be cut to 5 - 6 hours without risk to the drum. There are 6 figures and 1 Seviet.

ASSOCIATION: Southern Division of ONGRES (Yuzhnoys Oddeleniye ORGRES)

Card 2/2

307/96-58-8-19/22

AUTHOR: __ Vnukov, A.K. (Candidate of Technical Science)

TITLE: An Electric-radiometer, an Instrument for determining the Thermal Flow of Radiant Energy (Elektricheskiy radiometr - pribor dlya opredeleniya teplovogo potoka luchistoy

energii)

PERIODICAL: Teploenergetika, 1958, Nr 8, pp 91-92 (USSR)

ABSTRACT: In tests on furnaces and radiant heating-surfaces, measurements of intensity of heat flow are usually made by means of water calorimeters. A water supply is required and the method of measurement is rather complicated. A platinum-plate radiometer is somewhat simpler to use but also requires cooling water and periodic calibration. This article describes an instrument free from these defects; its operation is based on an equation of radiant-heat exchange, that is given. There is a fairly wide temperature range within which the temperature of the heated body has practically no influence on the heat flow. An equation is then written for the rate of temperature rise of a small thin plate insulated on one side. The equation used in the design of the instrument

Card 1/3 is based on these two formulae. Experimental curves of

An Electric-radiometer - an Instrument for determining the Thermal Flow of Radiant Energy

the temperature of the heated plate and the rate of change of temperature as functions of time are given in Fig 2. To make a measurement, the instrument, which has previously been cooled, is rapidly placed in the furnace or flue and the time required for the galvancmeter needle to cover a certain temperature range is noted. The heat flux is then calculated from the design formula. The heated element is in the form of a disc insulated at the back and edges. A form of compensating guard plate is used, as illustrated in Fig 3, and there are radial compensating rings, as shown in Fig 4. A sectioned diagram with dimensions is given in Fig 5. The particular instrument illustrated was intended for measurements of the thermal loading of furnace

Card 2/3

An Electric-radiometer - an Instrument for determining the Thermal Flow of Radiant Energy

screens. Special calculations have shown that, with a thermal flux of 100,000 kcal/m²hr, the total error of the instrument including the galvanometer does not exceed 3.5%, which is very satisfactory.

There are 5 figures, no literature references.

- 1. Radiometers--Design radiation--Measurement
 - 2. Radiometers--Performance 3. Thermal 4. Mathematics--Applications

Card 3/3

VMUKOV, A.K., kand. tekhn. nauk

Increase in the heat-release rate of gas and mazut furnaces. Energ. i elektrotekh. prom. no.1:5-8 Ja-Mr'64.

(MIRA 17:5)

VNUKOV, A.K., kand. tekhn. nauk; SINYAKEVICH, B.G., inzh.; CHABAN, O.I., inzh.

Heat loss due to external cooling of high and very high capacity
units. Teploenergetika 5 no.4:94-95 Ap * 58. (MIRA 11:5)

(Boilers) (Steam turbines)

VNUKOV, HK.

AUTHORS:

Dutikov, S.S.; Shevelev, A.A.; Vaytsman, V.M., Engineers

and Vnukov, A.K., Candidate of Technical Sciences

TITLE:

Exchange of Experience(Obmen opytom). The Automated Oper-

ation of Mills (Avtomatizatsiya raboty mel'nits).

PERIODICAL:

Energetik, 1958, Nr 7, pp 19-20 (USSR).

ABSTRACT:

In 1957, 5 drum ball mills (4 mills of "Sh-16" type and 1 biconical mill of "ShK-25" type) were automated according to the design suggested by Yuzhnoye otdeleniye ORGRES (the "ORGRES" South Branch Office). The following equipment was utilized: electronic controllers of "ER-III" type on 2 mills and electomechanical direct feedback columns of the "Energodetal' " plant on 3 mills. Their structural details and operation are described. The first experimental service of this automated system proved its operational stability and wide control range, as well as easy maintenance. The various requirements to be met for automating mills,

Card 1/2

such as good dust system, continuous aeration etc. are

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Exchange of Experience

91-58-7-6/27

outlined. The "dust level" automation of mills must guarantee a decrease in consumption of electric energy for the preparation of pulverized coal by 3 to 4 kwh per ton of milling. There are 2 diagrams.

1. Ball mills--Operation 2. Ball mills--Electronic controls

Card 2/2

2.2%**注意的**有数据,这个是在1920年的1931年

DUTIKOV, S.S., inzh.; SHEWELEV, A.A., inzh.; VATTSMAN, V.M., inzh.;
VHUKOV, A.K., kand.tekhn.nauk

Automatic control of ball mill operation. Energetik 6 no.7:
19-20 J1 '58. (MIRA 11:10)

(Pulverizers) (Automatic control)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860320013-7"

2.相談翻論。如於12年,1922年7

VATTSMAN, V.M., inzh.; VNUKOV, A.K., kand. tekhn. nauk; MARKIN, V.P., inzh.

Automation of the charging of fuel into ball mills. Elek.sta.29
no.3:85 Mr '58.
(Pulverizers)

(Pulverizers)

VNUKOU P. T

96-4-24/24

AUTHORS: Vnukov, A.K., Cond. Tech.Sc., Sinyakevich, B.G., Engineer

and Chaban, O. I., Engineer.

Thermal-losses resulting from external cooling of sets TITLE:

working at high and super-high steam conditions. (Teplovyye poteri ot naruzhnogo okhlazhdeniya blokov

vysokikh i sverkhvysokikh parametrov).

No.4, pp.94-95. (USSR). PERIODICAL: Teploenergetika, 1958,

ABSTRACT: In 1957 the Southern Division of ORGRES tested the thermal insulation of a high-pressure set in the Pridneprovsk regional power station and of a super-high-pressure set in the Cherepetsk Power Station. Measurements were made of the thermal losses through the insulation and of the distribution of the losses between sets and equipment. Thermal losses from particular parts of the sets are In the high-pressure unit, 1.26% of the total heat was passing through the insulation, and in the super-high-pressure sets 1.48%. Not all this heat is wasted tabulated. because some returns to the boiler with the air blast. About 80% of the losses occur in the boiler-house. The losses are greater in the super-high-pressure set because the temperature is higher and the piping is longer.

Card 1/2 Considerable thermal losses occur through uninsulated

Thermal-losses resulting from external cooling of sets working at high and super-high steam conditions.

parts of fittings. These form about a quarter of all the thermal losses. Shrouding the insulation with aluminium sheet gives a small reduction in the heat loss. There is I table.

AVAILABLE: Library of Congress.

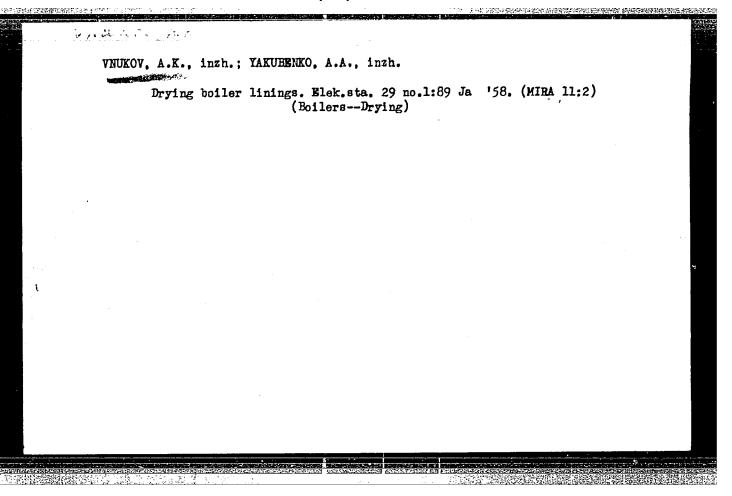
Card 2/2

VNUKOV, A.K., kand. tekhn. nauk.

Review of L.B. Krol's book "Characteristics of the high-pressure boiler installation." A.K. Vnukov. Shergetik 6 no.2:39-40 7 '58.

(Boilers)

(Krol, L.B.)



VNUKOV, A.K., kandidat tekhnicheskikh nauk.

Performance of metal in wall-type radiation steam superheaters.
Teploenergetika 4 no.9:45-48 S '57. (MLEA 10:8)

1. YuzhOROES. (Superheaters)

sov/91-58-2-31/31

AUTHOR:

Vnukov, A.K., Cand. of Techn. Sciences

TITLE:

A Review of the Book by L.B. Krol' "Characteristics of High-Pressure Boiler Sets",

published by the Gosenergoizdat, 1957 (Retsenziya na knigu L.B. Krolya "Osobennosti kotel'nykh agregatov vysokogo davleniya",

Gosenergoizdat, 1957 g)

PERIODICAL:

Energetik, 1958, Nr 2, p 39-40 (USSR)

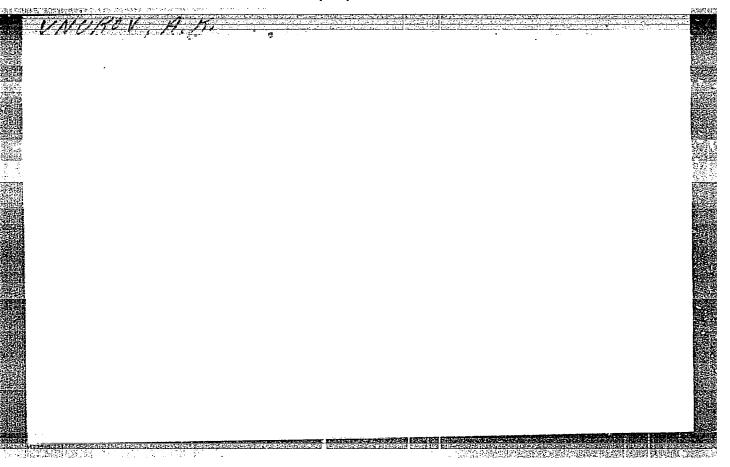
ABSTRACT:

The above mentioned book is reviewed.

Card 1/1

VNUKOV, A.K., kand. tekhn. nauk; SINYAKEVICH, B.G., inzh.; CHARAN, O.I., inzh.

Investigating heat losses to neighboring media in electric power plants equipped with high- and superhigh-pressure units. Slek. sta. 29 no.11:19-22 N '58. (MIRA 11:12) (Electric power plants)



AUTHORS:

Yarema, S.Ya. (Eng.) and Vnukov, A.K. (Eng.)

(Southern Division of ORGRES).

TITLE:

On the question of the strength of boiler drums during starting and stopping. (K voprosu prochnosti barabanov

kotlov pri puske i ostanovke).

PERIODICAL: "Teploenergetika" (Thermal Power), Vol.4, No.4, April, 1957, pp. 33 - 36 (U.S.S.R.)

ABSTRACT:

According to existing standards in calculating the strength of boilers, temperature stresses that arise in the boiler walls during periods of starting up and shutting down are not taken into account. In operation the magnitude of the temperature stresses is limited by the permitted temperature differences. According to Soviet and some foreign standards the temperature difference between any two points in the drum should not exceed 30 to 50 °C. This article gives an evaluation of the magnitude of temperature stresses and their influence on the total stresses in the cylindrical part of the drum. Measurements carried out whilst steam was being raised in boilers showed that the temperature field on the outside of the drum can be represented by a simple The temperature of the walls above water level practically coincides with the saturation temperature of the steam with which they are in contact and is thus uniform over the entire surface. Starting at the water surface and below, the drum wall temperature decreases

On the question of the strength of boiler drums during starting and stopping. (Cont.)

linearly and in the lower part of the drum the water temperature is again constant. This simplified diagram is shown to be in good agreement with practical measurements. Analysis of the solution of problems on temperature stresses in the cylindrical part of a drum shows that in the middle of the drum the normal stress acting in an axial direction preponderates over the tangential and radial stresses. A formula is given for this stress but it is applicable only to the middle part of the drum. The simplified diagram of the temperature field is then applied to this formula to give an evaluation of the normal stress which is plotted as a function of the position on the drum. Analysis of the equations shows that the maximum stresses occur at the inflection points in the temperature distribution and the corresponding values are substituted in the expression for the stress. The absolute values for the temperature stresses corresponding to measured temperature distributions are tabulated. In individual cases the stresses reach the designed values. The stress due to the internal steam pressure must be added to the internal temperature stress and an expression is obtained for their sum. Finally, an expression is derived for the permissible temperature difference between two points on

On the question of the strength of boiler drums during starting and stopping. (Cont.)

the drum with a given configuration of temperature field and safety factor. The equation is solved and the results are plotted on a graph, which is applicable to the drum of a boiler TP-170. With a safety factor of 1.65 the safe temperature difference at the commencement of firing may be 113°C. At the instant of connecting to the steam main (90 atm.) the temperature difference should not be greater than 85°C. With a safety factor of 1.11 the temperature difference at the start of firing is practically unlimited and at the end should not exceed 148°C. The temperature difference of 50°C permitted in certain standards corresponds to a safety factor 1.93 at a pressure of 100 atm. and of 3.68 at a pressure of 10 atm. The calculated results were verified by tests on a model of a boiler drum which is described. The surface temperatures of the model were measured with thermocouples and the stresses by resistance strain gauges. The temperature distribution on the circumference of the model is plotted alongside a curve obtained on a high pressure boiler drum. The distribution of axial thermal stresses in the model are plotted, the normal stresses measured along an arc in the middle part of the drum were quite small and are not shown in the graph. Results calculated from the

On the question of the strength of boiler drums during starting and stopping. (Cont.)

temperature field of the model are plotted on the same graph. Good agreement is shown. 7 figures, 2 literature references (2 Russian).

VNUKOV, A.K., inzhener; VOLKOVA, Ye.I., inzhener; PAVLIV, Yu.V., inzhener.

Measuring the temperatures in high-pressure boiler drums during firing. Energetik 3 no.12:10-11 D '55. (MLRA 9:2)

(Boilers)

VNUKOV, A.K., inshener.

Characteristics of a boiler installation equipped for rapid starting and shutting down. Teploenergetika 3 no.4:50-55 Ap 156. (MIRA 9:6)

1. Yuzhnoye otdeleniye Orgres.
(Boilers)

INGK 6 V, AK

AID P - 4368

Subject

: USSR/Heat Engineering

Card 1/1

Pub. 110-a - 13/19

Author

: Vnukov, A. K., Eng. Southern Branch of the Bureau for the Organization and Rationalization of Electric Power Plants and Networks.

Title

: Some particular features in shaping boiler adjusted for quick starts and stops.

Periodical: Teploenergetika, 4, 50-55, Ap 1956

Abstract

The ways for quick firing and extinguishing the boiler are discussed. Recommendations are made for an improved design. Four diagrams.

Institution: None

Submitted: No date

VNUKOV, A.K.

AID P - 2992

Subject

: USSR/Electricity

Card 1/1

Pub. 29 - 7/28

Author

: Vnukov, A. K., Eng.

Title

: Prevention of deformation of the cooled panels of a

chain-grate stocker

Periodical

Energetik, 6, 14-15, Je 1955

Abstract

Deformation of panels was observed in several boilers. The author describes preventive methods. Two drawings.

Institution:

None

Submitted

: No date

YEARDY, EN

AID F - 3699

Sub.ject

: USSR/Electricity

Card 1/1

Pub. 29 - 4/25

Authors

: Vnukov, A. K., Ye. I. Volkova and Yu. V. Pavliv, Engs.

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Title

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Measuring the temperatures of drums of high pressure

boilers during the firing

Periodical

: Energetik, 12, 10-11, D 1955

Abstract

: According to the circulars of the Technical Administration

of the Ministry of Electric Power Stations 4/T52 and

T1/54, the firing of high pressure boilers has to be done in such a way, that the temperature differences between the hottest and coldest parts of the boiler drums do not exceed 30 to 50 °C. The authors present a simplified method of measuring drum temperatures. Three drawings.

None Institution:

Submitted : No date

VITUKOV, A. E.

Welding

Flaws in place where thermoelements are welded to pipes; Rab. energ. 2 No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952 _1953, Uncl.

VNUKOV, A. K.

Pipe

Flaws in place where thermoelements are welded to pipes., Rab. energ., 2, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952 1953, Uncl.

VNUKOV, A.K., kand.tekhn.nauk; PELESHOF, A.G., inzh.; POBEGAYLO, K.M., inzh.; MAKSIMOV, A.I., inzh.

Methods for adjusting the furnaces of large boiler units. Elek. sta. 32 no.11:10-13 N '61. (MIRA 14:11) (Boilers) (Furnaces)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860320013-7"

VOLKOVA, Ye.I., inzh.; KHIRIN, N.D., inzh.; BARYSHNIKOV, A.P., inzh.; KOZHEVNIKOV, G.A., inzh.; KHOKHRIN, K.G., inzh.; BABKOV, V.A., inzh.; VNUKOV, A.K., kand.tekhn.nauk

Starting clutch for draft and blowing machinery and pit mills.
Teploenergetika 8 no.6:31-32 Je '61. (MIRA 14:10)

VNUKOV. A.K., kand. tekhn. nauk

Efficiency of burning mazut. Elek. sta. 34 no.5:10-15 My '63.

(Furnaces) (Mazut)

	Cut down on the	loss of work t	ime. Sots.tr	id 4 no	.11:136-137 (HIRA 13:4)	(
•	1. Starshiy inzhener po trudu i zarabotnoy plate tresta "Sibstroymekhanizatsiya" Mintransstroya SSSR. (Hours of labor) (Wages)					

FEDIN, Ye.I., inzh.; VNUKOV, P.K., inzh.

Mechanization and automatic control in industry is the main road toward reducing labor consuming operations in reinforced concrete shipbuilding. Sudostroenie 28 no.1:59-61 Ja '62.

(MIRA 16:7)

(Ships, Concrete)

(Shipbuilding—Equipment and supplies)

VNUKOV, Sergey Alekseyevich, inzh.; PERGAMENSHCHIKOV, B., red.; NEMITOV, V., tekhn. red.

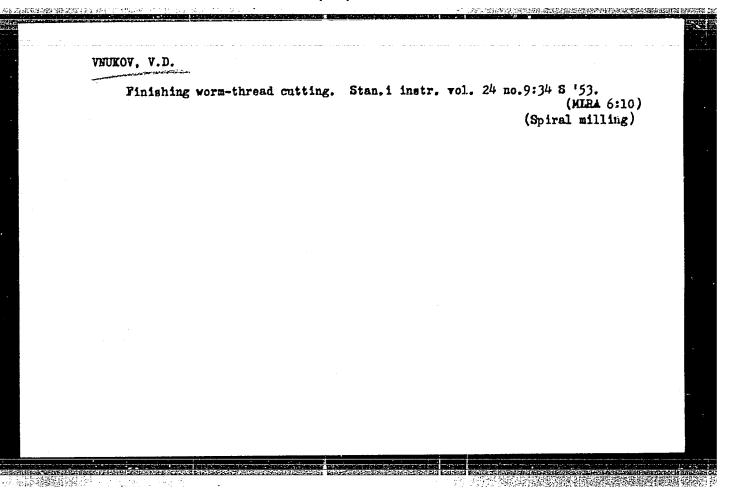
[Mechanization and automation of industrial production; practice of enterprises of the Orel Economic Region] Mekhanizatsiia i avtomatizatsiia proizvodstva; iz opyta predpriiatii Orlovskogo ekonomicheskogo administrativnogo raiona. Orel, Orlovskoe knizhnoe izd-vo, 1960. 78 p. (MIRA 17:3)

VNUKOV. Sargey Alekseyevich; ZAKHARIK, Ye.; USIKOV, N.

[Orel economic region] Orlovskii ekonomicheskii administrativnyi raion. Orel, Orlovskoe knizhnoe izd-vo, 1959. 78 p.

(MIRA 13:8)

(Orel Province--Economic conditions)

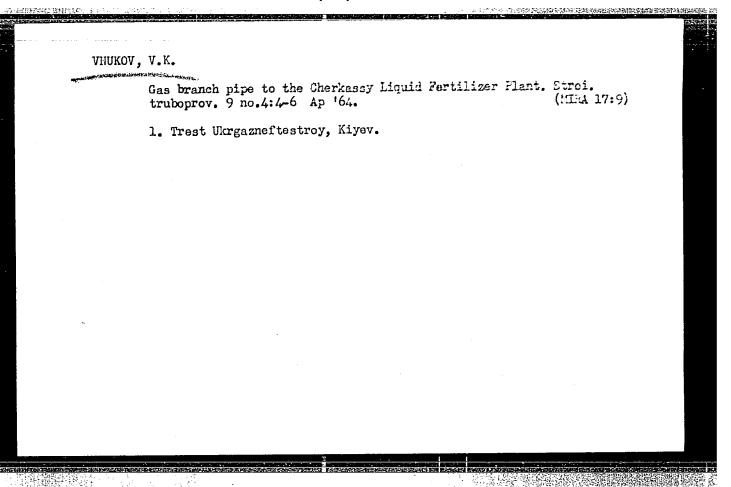


OCHKIN, V.F.; VNUKOV, V.I.; GORODKOV, N.I.; LOVTSOV, A.P.; VIKTOROVA, A.G.; SOKOLOVA, Ye.Ya.; KOZLOV, A.N.; DRYUCHIN, A.P., obshchiy red.

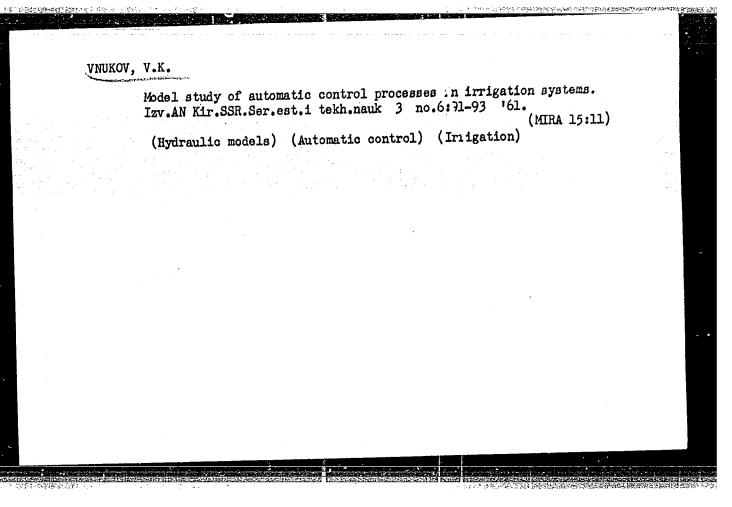
[Economy of Saratov Province; statistical collection] Narodnoe khoziaistvo Saratovskoi oblasti; statisticheskii sbornik. Saratov, Gos.statisticheskoe izd-vo, 1959. 205 p. (MIRA 12:11)

1. Saratov (Province) Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo upravleniya Saratovskoy oblasti (for Dryuchin). (Saratov Province—Statistics)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860320013-7"



Welding elongated sections. Stroi. truboprov. 6 no.4:17 Ap '61. (MIRA 14:6) 1. Stroitel'nyy uchastok - 12 tresta Ukrgazneftestroy, g. Baranovichi. (Pipe lines--Welding)



L 8252-66 EWT(1)/EWA(h)

ACC NR: AR5018111

SOURCE CODE: UR/0271/65/000/007/A040/A040

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel naya tekhnika. Svodnyy tom, Abs. 7A291

AUTHOR: Vnukov, V. K.

TITLE: Selecting some parameters of photoelectric function generators 2^4

CITED SOURCE: Sb. Avtomatiz. ob"yektov irrigats. sistem. Frunze, Ilim, 1964, 84-93

TOPIC TAGS: function generator, function generator design

TRANSLATION: A universal function generator designed with an electron-beam tube and a photomultiplier is considered. The generator is intended for producing functions of any form. A filter at the photomultiplier output is used for noise reduction. Operation of the system is analyzed. A total tracking error is determined which is a sum of the desirable-signal error and the noise-caused error (from the photomultiplier). The desirable signal is regarded as a stationary random process; noise is assumed to be white. The filter time constant is determined on the basis of the specified mean-square error and the noise signal. Bib 6, figs 4.

SUB CODE: 09

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860320013-7"

Constructing crossings across swamps using the method of continuous floating. Stroi. truboprov. 5 no.10:12-14 0'60. (HIRA 13:10) (Gas, Natural--Pipelines)

VNUKOV, Vladimir Petrovich, ed.

Artillery 2. ispr. i dop. izd. Moskva, Gos. voen. izd-vo, 1938.
366 p. (54-55820)

UF145.V6 1938

1. Artillery.

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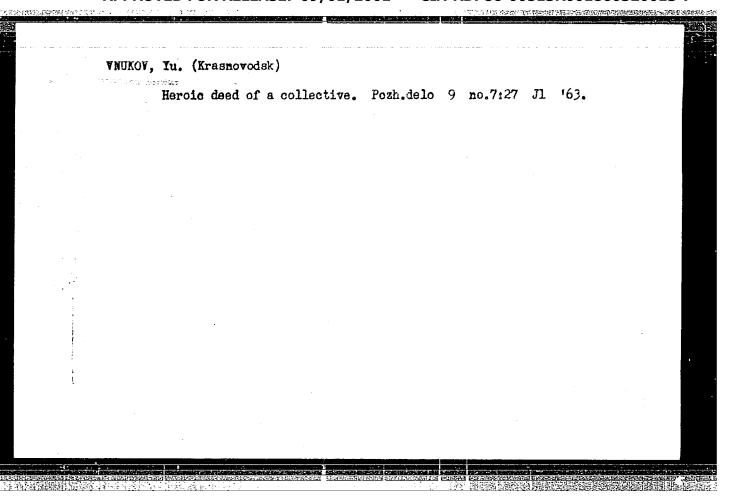
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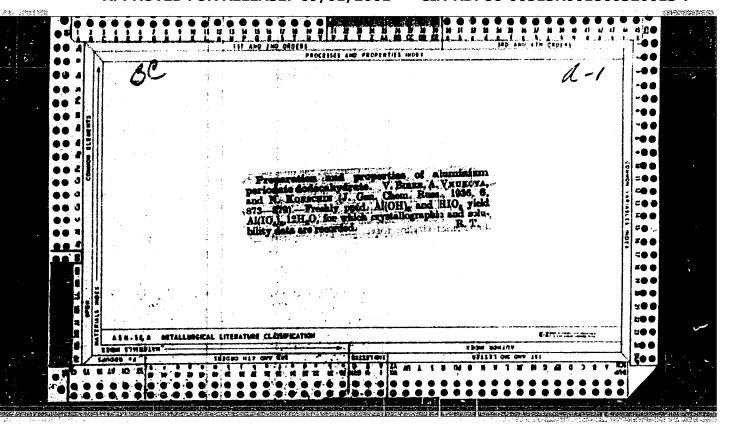
VMUKOV, Vladimir Petrovich.

Fhysics and the defense of the country Izd. 5., ispr. Moskva Gos. izd-vo tekhn. teoretidh. lit-ry, 1°43. 339 p. (49-34461)

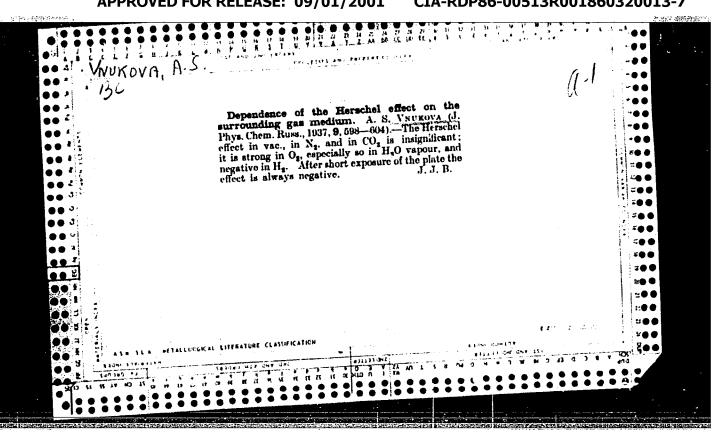
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COUNTRY h.- 8 CATAGORY A95. JOUR. : RZB101., No. /9, : Ynulova, A. L.; hyzha, Y. K. : Ode san Agricultural Institute AUTHOR INST. : Application of Minor Llements Containing TITLE Perbilizers to Oranes ORIG. PUB.: Tr. Cdessk. s.-kh. in-ta, 1957, 8, 64-70 ABSTRACT : A study was made of the treatment of grapevines of the varieties dame Chernyy, dense, and kiesling, under conditions of Odesskapa Oblast', with boron and manganese, applied to the soil or as a spray, in complete mineral fertilizer. In application to the soil, before blooming, were tested: borax -- 2.6 g, BrBC, -- 10 g, and NFH -- 20 g, per vine. In spray application with a background of main application of NFK, were tested sprayings, before blooming and one month after it, with solutions of 22 NFK, 0.022 borax, and 0.062 kmsC, or RING. It was found that yield is increased and sugar content of the grapes is raised as a result of application CARD: 1/2



VNUKOVA, cook of ; USSR Milliand: Cultivated Flants. Fruits. Berries. Mubs. Toc. MBS. JOVER - Hell Emm -Breloglya, Mo.5 , 1939, No.20507 : Vrukova, A.S.; Ryzha, V.K. Sugar : Odessa Agric.Inst. Enterior. . The Effect of Molybdenum as a Micronutrient ti ti dan on Grapes. on G. PUB.: Tr. Odessk. s.-kh. in-ta, 1958, 13, 129-132 ABOTRACT : Foliar sidedressing with Mo together with NPK and Bordeaux mixture were applied at the Odessa Agricultural Institute in 1954. The solution contained NPK 2%, (NHL) 2MoU4 0.0015% or 0.03% and Bordeaux mixture 1%. Sidedressing was sprayed before large-scale flowering of the grapes and after a month, during berry formation. The average borry weight increased by 10%, ripening was speeded up by 10 days, CERD: 1/2

VNUKCVA,A.S., kandidat tekhnicheskikh nauk; RYZHA,V.K.

Role of the compounds of manganese and boron. Vin.SSSE 15 (NIRA 8:8)

1. Odesskiy sel'skokhoxyaystvennyy institut (Grapes) (Plants, Effect of boron on) (Plants, Effect of manganese on)

VNUKOVA, K.; KALAB, V.; REPIS, J.

"A method of measuring the heat of reaction in continous reactors." In English.

COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS, Praha, Czech., Vol 24, no.5, May 1959

Monthly Lest of East European Accessions (EFAI), IC, Vol. 8, No. 6, Sept. 59

Unclassified

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Country : CZECHOSLOVAKIA

Category: Laboratory Equipment. Instrumentation

Abs Jour: RZhKhim., No 17, 1959, No 60674

Author : Kalab, V.; Rapis, J.; Vnukova, K.

Inst :

Title : Method of Determination of the Reaction Heats in

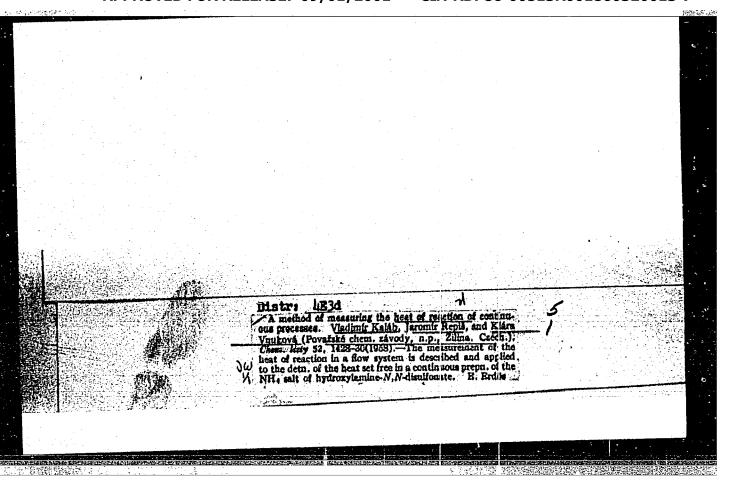
Contineous Process

Orig Pub: Chem. listy, 1958, 52, No 8, 1428-1430

Abstract: A method for the determination of heat of che-

mical reactions in the reactors of contineous type was developed. The method is applicable for all such instances in which the course of reaction, when conducted in a calorimeter, differ basically from that occurring in the reactor pro-

Card : 1/2



KRATOCHVIL, M.; VNUKOVA, L.

The effect of splenectomy on the efficacity of chloralkylamine in influencing the regeneration capacity of the rat liver. Neoplasma 11 no.1:51-54 *64.

1. Research Laboratory for Surgical Pathophysiology, Medical Faculty, Komensky University, Bratislava, Czechoslovakia.

CZECHOSLOVAKIA/Chemical Technology - Processes and Equipment

Н.

in Chemical Technology.

Abs Jour

: Ref Zhur - Khimiya, No 16, 1958, 54222

Author

: Kalab, Vnukova, Rzhepish.

Inst

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Title

: The Efficiency of Extraction Columns Equipped with

Mixers.

Orig Pub

: Chem. listy, 1957, 51, No 7, 1249-1255

Abstract

: The efficiency of two semi-industrial extraction

columns with blace mixers were investigated:

1) those equipped with cross ring discs welded to the

inner surface of the column, and

2) those having the sections filled with cylindrical packing. The blades of the mixer are located between

the discs and the sections.

Card 1/1

VNUKOVSKIY, G.; LYSENKO, I.; BERESHCHUK, N., red.; NAGIBIN, P., tekhn. red.

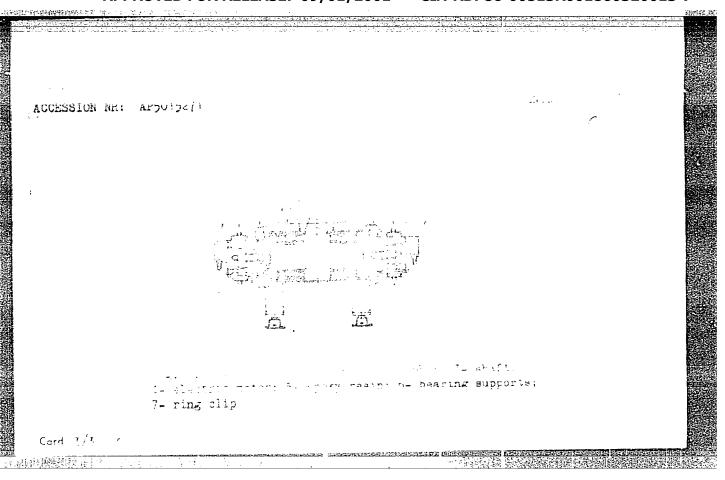
[The "Kiialinskii" State Farm] Sovkhoz "Kiialinskii." Alma-Ata, Kazsel'khozgiz, 1962. 31 p. (MIRA 17:2)

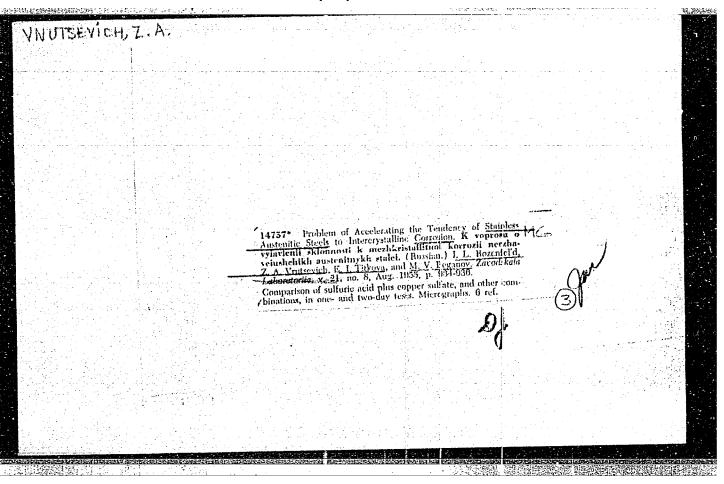
VNUKOVSKIY, G., starshiy inzhener-leytenant

Responsibility of lecturers. Komma, Vcoruzh, Sil 2 no. 9:59-60
(MIRA 15:5)
My '62.
(Russia--Armed forces--Political activity)

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Kuvaldin, A. V. B.; Pautov, A. V.	
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B.; Pautov, A. V. B.; Pautov, A. V. PIPLE: A turbomolecular high-vacuum pump. Class 27, No. 170609 Source: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 51	
realloten' izobreteniy i tovariya-	
Source: Dyazza	
TOPIC TAGS: vacuum pump, turbomolecular vacuum pump TOPIC TAGS: vacuum pump, turbomolecular vacuum pump with a ABSTRACT: This Author Certificate presents a turbomolecular vacuum crumber (see Fig. 1) ABSTRACT: This Author Certificate presents a turbomolecular vacuum crumber (see Fig. 1) ABSTRACT: This Author Certificate presents a turbomolecular vacuum crumber (see Fig. 1)	
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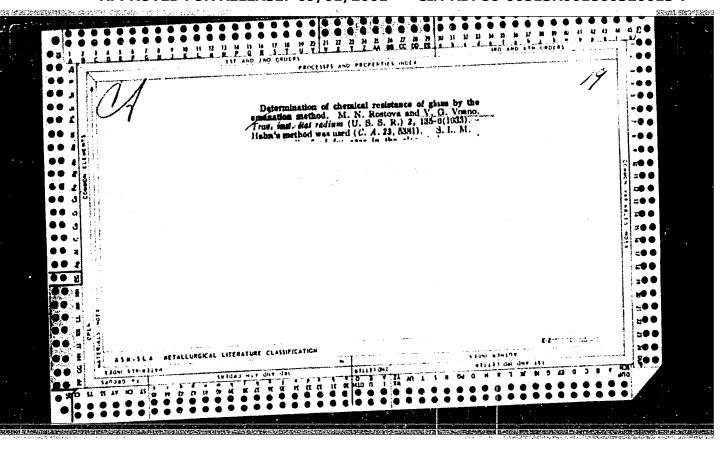
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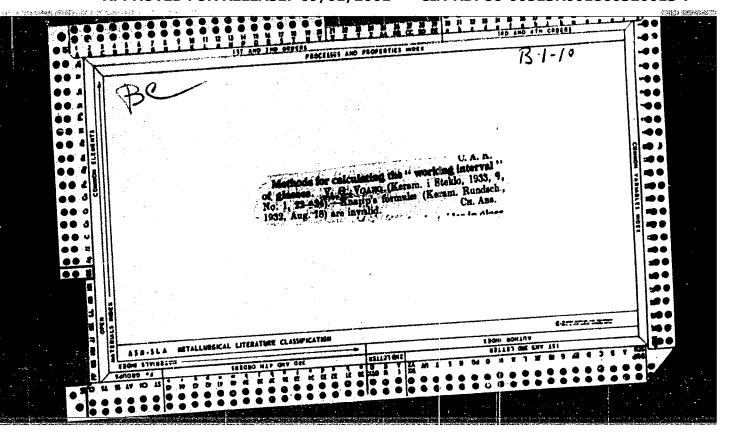


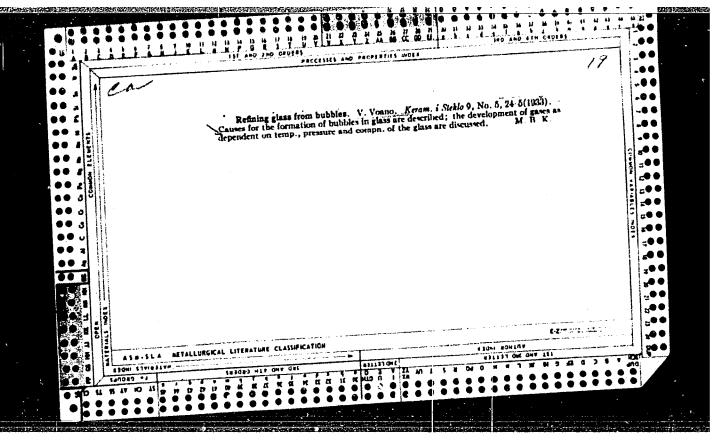


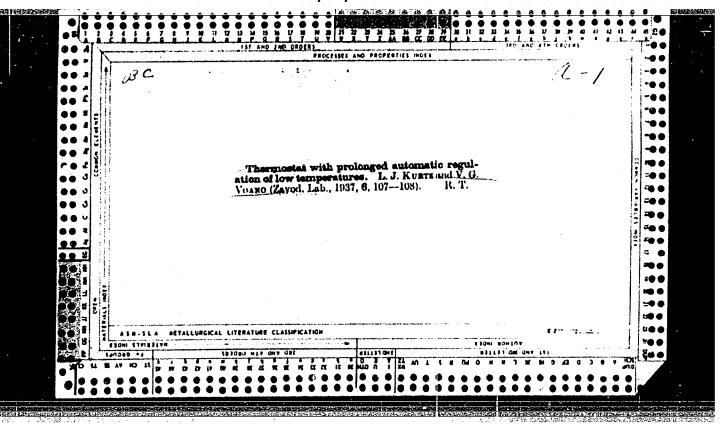
- 1. VCANAYA, A. TS,
- 2. USSR (600)
- 4. Cysticercosis, Cerebrospinal
- Significance of complement fixation in diagnosis of cerebral cyclicercosis, Vo. neirokhir. 17 No. 1, 1953.

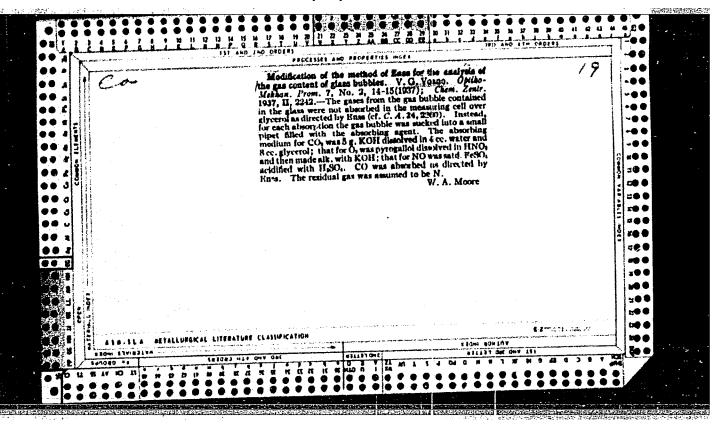
9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

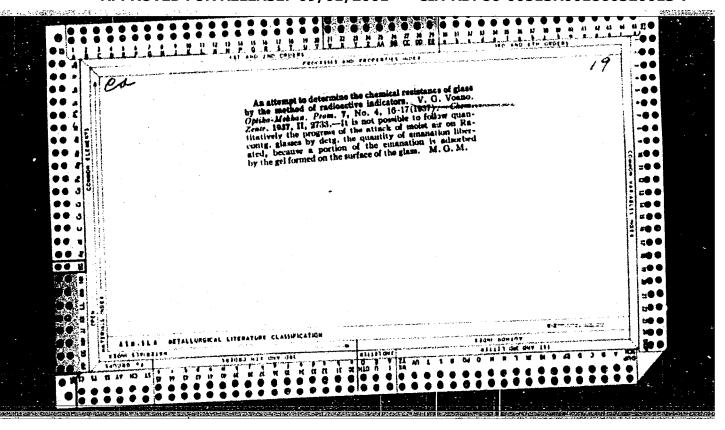


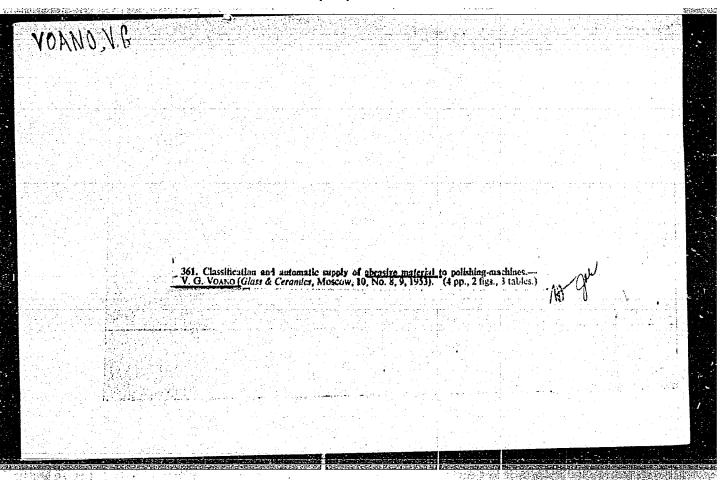


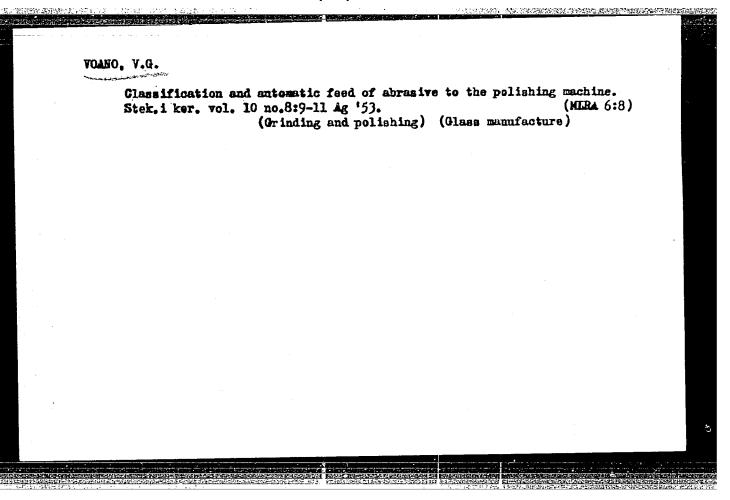












BOYKOVA, A.I. [translator]; BONDAR', A.I. [translator]; VOANO, V.G. [translator]; YEGOROVA, Ye.N. [translator]; NIKOGOSYAN, Kh.S. [translator]; TOROPOV, N.A., professor, redaktor; ZAKHAR'YEVSKIY, V.A., redaktor: OGANDZHANOVA, N.A., redaktor; DUMBRE, I.Ya., tekhnicheskiy redaktor

[Physical chemistry of silicates; a collection of articles.
Translated from the English and German] Fizicheskain khimiia silikatov;
sbornik statei. Perevod s angliiskogo i nemetekogo A.I.Boikovoi i dr.
Pod red. N.A.Toropova. Moskva, Izd-vo inostrannoi lit-ry, 1956. 302 p.
(Silicates)

(MIRA 9:7)

24668-66 EWT(m)/EWP(j) RM ACC NR: AP6015853 SOURCE GODE: UR/0318/65/000/001/0031/0033		
AUTHOR: Yulin, M. K.; Vol'epshteyn, A. B.	The same of the sa	
ORG: Institute of Mineral Fuels (Institut goryuchikh iskopayemykh)		
TITIE: Processing of liquid alkyl phenols but but phenol but phenol		
SOURCE: Neftepererabotka i neftekhimiya, no. 1, 1965, 31-33		
TOPIC TAGS: alkylation, phenol, alcohol, chromatography		
ABSTRACT: The authors describe a processing of alkyl phenols obtained by the alkylation of phenol with isobutyl alcohols, developed in order to reduce the yield of by-products. The processing is carried out in a reactor made of stainless steel. After driving off water, low-boiling compounds (isobutyl alcohol, isobutyl ether) and phenols at a temperature up to 195° at atmospheric pressure, the temperature was raised to 215°, and the dealkylation was performed at the same pressure for 2 hours. The yield of anhydrous dealkylation products was 83.7% (the composition, determined by gas-liquid chromatography, is fully tabulated). The stationary phase used was silicone oil. P-tert-Butylphenol (PTBP) was isolated from the 210-260° fraction by crystallization and centrifuging in 36.8% yield. The liquid portion of the fraction contained 35.1% PTBP, and phenol, o-tert-butylphenol, and di-tert-butylphenol. The percentage compositions of the products obtained are listed. Orig. art. has: 1 figure and 1 table. [JPRS]		
SUB CODE: 07 / SUBM DATE: none	2-	
Card 1/1 (655.5		
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: :	1. 24711-66 EWT(1) SOURCE CODE: UR/0059/65/068/003/0373/0416	
	ATTHOR: Volevich, L. R. (Moscow)	
	CiG: none	
	TITLE: Solvability of boundary value problems for general elliptic systems	
	SOURCE: Matematicheskiy sbornik, v. 68, no. 3, 1965, 373-416	
	TOPIC TAGS: boundary value problem, elliptic equation, Banach space, existence theorem, uniqueness theorem	
	•	
	ABSTRACT: The solvability is analyzed for a system of elliptic equations characterized by a disparity in both the unknown functions as well as in the equations. The study is divided into five parts. In part I the boundary value problem is defined for the elliptic system	3
	by a disparity in both the unknown functions as well as in the equations. The study is divided into five parts. In part I the boundary value problem is defined for the elliptic system $\sum_{l=1}^{n} A_{ll}(x; D) u_{l}(x) = f_{l}(x) (l = 1,, n),$	*
	by a disparity in both the unknown functions as well as in the equations. The study is divided into five parts. In part I the boundary value problem is defined for the elliptic system	Ä
	by a disparity in both the unknown functions as well as in the equations. The study is divided into five parts. In part I the boundary value problem is defined for the elliptic system $\sum_{l=1}^{n} A_{ll}(x;D)u_{l}(x) = f_{l}(x) (l=1,\ldots,n),$ where $A_{l,l}$ is a linear operator given by	2

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ACC NR: AP6008805

2) the condition of regular ellipticity; and 3) the condition of coercivity. Under condition 1), three types of elliptic systems are considered: homogeneous systems; I. G. Petrovskiy systems (Ob analitichnosti resheniy sistem differentsial nykh uravneniy, Matem. sb., 5 (47) (1939), 3-68), and Douglis-Nirenberg systems (S. Agmon, A. Douglis, and L. Nirenberg, Estimates near the boundary for solutions, of elliptic partial differential equations, satisfying general boundary conditions I, II, Comm. Pure Appl. Math., 12 (1959), 623-727; 17 (1964) 35-92). In part II a functional scheme is constructed for a normal solution of the elliptic boundary value problem. This solution is constructed in G-space for the boundary value problem

$$A(x; D)u = f(x) \quad (x \in G),$$

$$B(x'; D)u = g(x') \quad (x' \in \Gamma)$$

under the following four equivalent conditions: a) the above equations are elliptic; b) the (4 operator in Banach space has left and right regularizations; c) the operator (5) (operating from $H_1(G,\Gamma)$ in $H_{l+1}(G)$) appears as a Φ -operator with a d-characteristic independent of $H_1(I)$; d) for any function $H_1(I)$, the following is valid a priori $\| u \|_{H_{l+1}(G)} < \operatorname{const} \cdot [\| Au \|_{H_{l+1}(G)} + \| Bu \|_{H_{l-m-1}(\Gamma)}].$

In part III, the boundary value problem

$$B(D) u(x', 0) = g(x') (x_v = 0; x' = (x_1, ..., x_{i-1})),$$

Card 2/3

1 21711-66 ____ ACC NK: AP6008805

is considered in the half-space R_+^{\prime} with constant coefficients. By a Fourier transformation this problem leads to the ordinary differential equations

$$A(\xi', D_t)V(t) = 0$$
 $(t > 0),$
 $B(\xi', D_t)V(0) = h$ $(t'=0).$

The fundamental matrices of this system are investigated and a priori values are introduced in the L_2 -norm of the half-space. In part IV the structure of a regularizer is analyzed in three steps: constant coefficients in R^{ν} and R_{+}^{ν} ; variable coefficients in arbitrary domains G. In part V, the analysis is centered on constructing a regularization function in the $W_p^{(\ell)}(p \neq 2)$ space. This means the general space for the function $f(x) \in L_p$, $D^{\alpha}f(x) \in L_p$, D

with the norm

$$\|f\|_{\mathbb{P}_p^{(l)}(0)} = \left[\sum_{|\alpha| < l} \int |D^{\alpha}f(x)|^2 dx\right]^{\frac{1}{p}}.$$

It is shown that the operators constructed in part IV appear as regularization functions in the $\mathbb{W}_p^{(i)}$ space for $p \neq 2$. A priori values are obtained for the elliptic problem in the \mathbb{L}_p -norms. Orig. art. has: 165 equations.

SUB CODE: 12/ SUBM DATE: 15Jun64/ ORIG REF: 022/ OTH REF: 002

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<u> 1. 35508-66 — ENT (1)</u>

ACC NR AP6011407

OUNCE CODE: UR/0057/66/036/003/0564/0565

AUTHOR: Vol'I, Ye.M.

ORG: none

TITLE: Effect of ionizing radiation on the breakdown potentials of air gaps

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 3, 1966, 564-565

TOPIC TAGS: spark gap, dielectric breakdown, air, radiation environment, ionizing radiation, radiation intensity

ABSTRACT: The author has measured breakdown potentials of air gaps in the presence of gamma and slow neutron radiation from a pile in order to obtain engineering data for design of electronic equipment for service in high radiation environments. Both dc and ac breakdown were investigated for gaps between spherical electrodes and between a point and a plane electrode; in the dc point to plane measurements the point was positive. The gamma intensity ranged from 2.5 to 25 000 r/sec and the neutron intensity from 2 x 10⁹ to 2 x 10¹³ slow neutrons/cm² sec. The maximum ionization rate and ion density were 5.2 x 10¹³ cm⁻³ sec⁻¹ and 5.6 x 10⁹ cm⁻³, respectively. The gap lengths are not given, but the breakdown potentials at low radiation intensities ranged from 3.2 kV (ac sphere gap) to 7.4 kV (positive point to plane). The ac amide breakdown potentials of the sphere gap decreased monotonically with increasing radiation intensity; the breakdown potential under the most intense radiation was only

Card 1/2

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lane gap decreased r t 100-200 r/sec, and he minimum dc breakd to radiation value.	lue with no radiation. apidly with increasing increased with further own potential of the po It is suggested that th ng radiation intensity	increase of the reint to plane gap we e initial decrease	diation intensity is nearly 40% below in the breakdown ision of electrons	w its
he point electrode I	esulting in formation of	a region would b	n reduced by the	1.
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vould again increase.	Orig. art. has: 1 fo	rmula and 2 figure	!•	Caranta
	SUBM DATE: 22Hay65			
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FAVOROV, A.M.; VLOKH, V.G.

Possibility of induced type formation in intervarietal potato hybrids. Agrobiologiia no.1:85-89 Ja-F '62. (MIRA 15:3)

1. Institut zemledeliya i zhivotnovodstva zapadnykh oblastey Ukrainy, L'vov. Chlen-korrespondent AN USSR (for Favorov). (Potato breeding)

1	VOBECKY,	J	مسي		
	PECEIKA	J.; JANICEK, B.; RETVIDEX, J.; SUCHANEK, H.; SHYREGVA, K.; TUHOVA, B.; VCEECKY, J.; VCITCIA, H.; VCIAKCIA, R.		MAR 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		Immunological survey of influence in the Czech regions. J.hyg. opides., Praha 4 no.4:477-488 160.	•		
		1. Institute of Epidemiology and Microbiology in Prague; Microbiological Department, Medical School, Brno University; Public Health Departments in Jihlava, Brno and Ostrava. (IMPLICANZA immunology)	o-		
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VOLAKOVA, N.; JANDASEK, L.; HABANEC, B.; VEDROVA, D.; ZEYTOVSKY, B.; VOBECKY, J.

Epidemic of myocarditis in newborn infants caused by Coxsackie Bl virus. Cesk. epidem. 13 no.2:88-95 8 My 64

1. Mikrobiologicky ustav lek.fak.UJEvP, Brno; II. Patol.-anat. ustav lek.fak. UJEvP, Brno; I.Detska klinika lek. fak. UJEvP, Brno; CUNZ Boskovice a KHES v Brne.

4

PESEK, J.; VOBECKY, J.

Attempt to check the effectiveness of vaccination against poliomyelitis as a current antiepidemic practice. J. hyg. epidem. (Praha) 8 no.3:351-352 *64

1. Virological Laboratory, Epidemiological Department, Regional Hygiene and Epidemiology Station, Brno.

PESEK, J.; VOBECKY, J.

《中华的大学》

Attempt to apply the results of serological surveys in epidemiological practice in influenza. J.Hyg. epidem., Praha 8 no.1: 21-36 *64

1. Virological Laboratory and Epidemiological Department, Regional Hygiene and Epidemiology Station, Brno.

VOBECKY, J.; PESEK, J.; MACKU, M.; technicka spoluprace DOLEZALOVA, V.

Our experience with the use of a live vaccine against infantile paralysis during the spring of 1960. Cesk. epidem. 10 no.6:404-410 N 61.

1. Krajska hygienicko-epidemiologicka stanice v Brne.

(POLIOMYELITIS immunol) (VACCINATION in inf & child)

PECENKA, J.; JANICEK, B.; NEDVIDEK, J.; SUCHANEK, M.; SKVRNOVA, K.; TUMOVA, B.; VOBECKY, J.; VOJTOVA, H.; VOLAKOVA, N.

Immunological survey of influenza in the Czech regions. J.hyg. epidem., Praha 4 no.4:477-488 160.

1. Institute of Epidemiology and Microbiology in Prague; Microbiological Department, Medical School, Brno University; Public Health Departments in Jihlava, Brno and Ostrava.

(INFLUENZA immunology)

CETCHOLOVAKIA

MACHU, M., MD; VODECKY, J., MD; PESEK, J., MD.

1. Infoctious Tard of the Faculty Children's Hospital (Infoction tard of the Faculty Children's Hospital (Infoction oddoleni fakultni detake nenocnice), Brno; 2. Kraj Hygiene-Epidemiological Station (Krajcka hygienicko-epidemiologicka stanice), brno

Pruguo, Prakticky lokar, No 11, 1963, pp 409-412

"Methods of Letermination of the Etiology of Paralytic Patients."

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Experience with utilization of insecticides against mosquitoes.

Cesk. epidem. mikrob. imun. 5 no.2:94-100 Apr 56.

1. Z krajske hygienicko-epidemiologicke stanice v Brne, reditel

MUDr. Julius Mencl.

(MOSQUITOES,

control with insecticide NERA 30 (Cz))

(INSECTICIDES,

NERA 30, mosquito control (Cz))
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JELINKOVA, S.; VOBECKY, J.; JANICEK, B.

THE PROPERTY OF THE PARTY OF TH

Value of transaminase activity determination in epidemiological practice. Cesk. epidem. mikrob. imun. 12 no.2:104-109 Mr '63.

 Krajska hygienicko-epidemiologicka stanice v Brne. (AMINOTRANSFERASES) (COMMUNICABLE DISEASES)

PESEK, J.; VOBECKY, J.

显现其刻建筑设计。1000年

The reduction of wild policyirus circulation following vaccination with the live vaccine. A new factor in the oecology of enteric viruses? J. hyg.epidem (Praha) 8 no.2:262-263 164.

1. Virological Laboratory, Epidemiological Department, Regional Hygiene and Epidemiology Station, Brno.